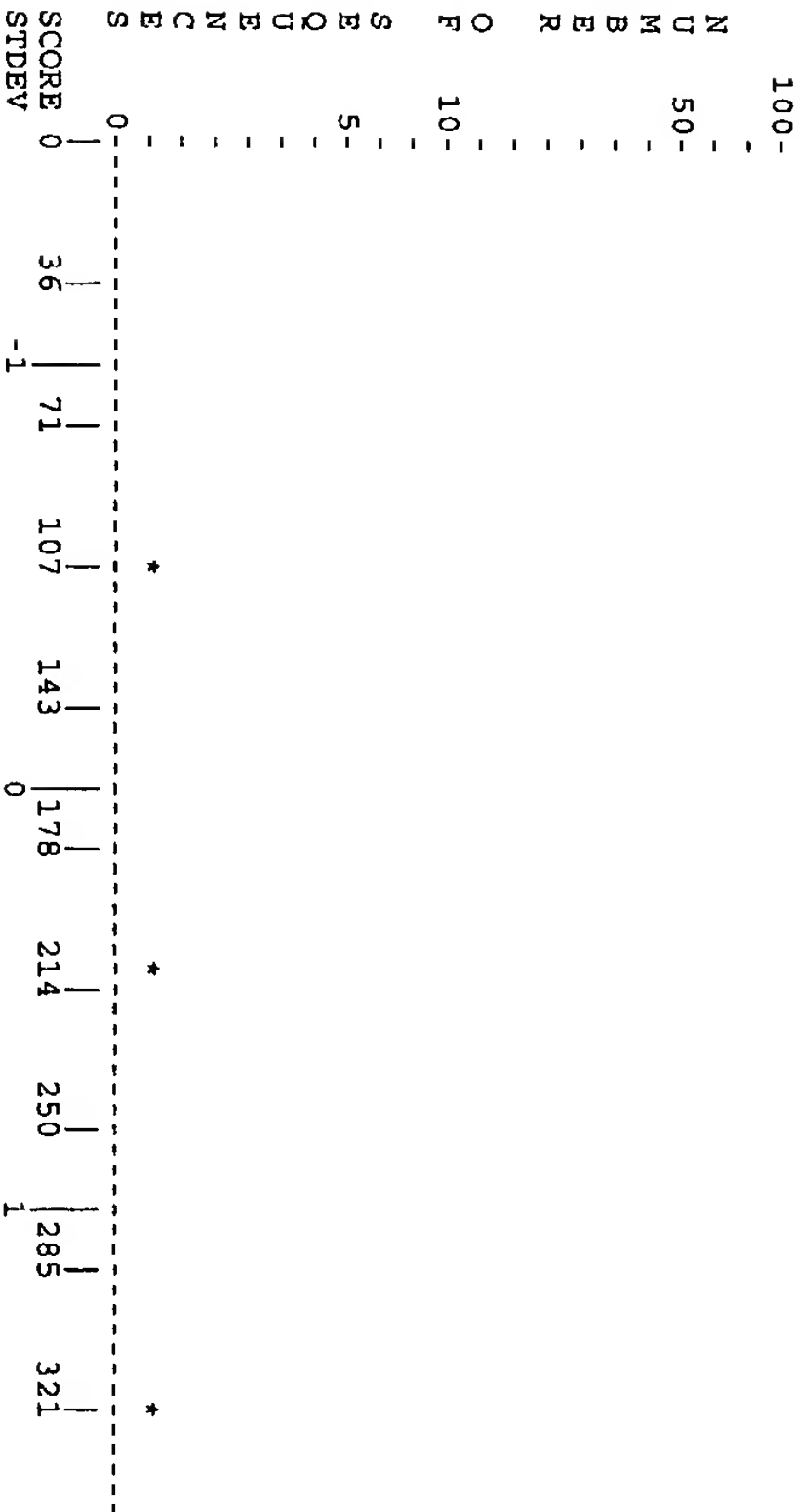```
>O<
O|/|O IntelliGenetics
>O<
```

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-10-633-008-2.res made by jdelaval on Tue 20 Jul 104 14:33:37-PST.

Query sequence being compared:US-10-633-008-2 (1-321)
Number of sequences searched: 3
Number of scores above cutoff: 3

Results of the initial comparison of US-10-633-008-2 (1-321) with:
File : seqs-32-33-34.pep



```
100-
    -
    -
 50-
    -
    -
100-
    -
    -
  5-
    -
    -
 10-
    -
    -
  0-
    -         *
    -
    -
    -
    -                *
    -
    -
    -
    -                              *
SCORE 0 |----|----|----|----|----|----|----|----|
       36   71   107  143  178  214  250  285  321
STDEV  -1    0                   1
```

PARAMETERS

		Unitary
Similarity matrix		1
Mismatch penalty		1.00
Gap penalty	K-tuple	2
Gap size penalty	Joining penalty	20
Randomization group	Window size	32

SEARCH STATISTICS

	Mean	Median
Scores:	211	109
	Standard Deviation	
	106.61	

Times:

	CPU	Total Elapsed
	00:00:00.00	00:00:00.00

Number of residues: 984
Number of sequences searched: 3
Number of scores above cutoff: 3

Gap penalty 0.05 0
Cutoff score 0 0

A 100% similar sequence to the query sequence was found:

The scores below are sorted by initial score.
Significance is calculated based on initial score.

Sequence Name	Description	Init. Opt. Score Score Sig. Frame

---

1. US-10-633-008-32 Sequence 32, Application US/10633008

The list of other best scores is:

Sequence Name	Description	Length	Init. Score	Opt. Score	Sig.	Frame
1. US-10-633-008-32	Sequence 32, Application	399	321	321	1.03	0
2. US-10-633-008-33	Sequence 33, Application	305	206	161	-0.05	0
3. US-10-633-008-34	Sequence 34, Application	280	108	128	-0.97	0

1. US-10-633-008-2 (1-321)
   US-10-633-008-32 Sequence 32, Application US/10633008

Sequence 32, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/01000P1
CURRENT APPLICATION NUMBER: US/10,633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 32
LENGTH: 399
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score	= 321	Optimized Score = 321	Significance = 1.03
Residue Identity	= 100%	Matches = 321	Mismatches = 0
Gaps	= 0	Conservative Substitutions = 0	

```
         10        20        30        40        50        60        70
X   MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLCGYTQVLVKWLVQRGSDVTIFLRDS
    |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
X   MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLCGYTQVLVKWLVQRGSDVTIFLRDS
         10        20        30        40        50        60        70

         80        90       100       110       120       130       140
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPT
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPT
         80        90       100       110       120       130       140

        150       160       170       180       190       200       210
VTTGSGYGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQ
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
VTTGSGYGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQ
        150       160       170       180       190       200       210

        220       230       240       250       260       270       280
VGSEQHSDIVKFVVKDSSKLLKTKTEAPTTMTYPLKAITSTVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
|||||||||||||||||||||||||||||||||||||||||||||||||||||||
VGSEQHSDIVKFVVKDSSKLLKTKTEAPTTMTYPLKAITSTVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
        150       160       170       180       190       200       210
```

```
                   220       230       240       250       260       270       280
VGSEQHSDIVKFVVKRDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
                                               X
                   290       300       310
LIISLCCMVVFTMAYIMLCRKTSQQEHVYEAAR
         ||||||||||||||||||||||||||||||          X
                   290       300       310       320       330       340       350
LIISLCCMVVFTMAYIMLCRKTSQQEHVYEAARAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNNYSDE
                   370       380       390
PCIGQEYQIIAQINGNYARLLDTVPLDYEFLATEGKSVC
```

2. US-10-633-008-2 (1-321)
    US-10-633-008-33 Sequence 33, Application US/10633008

Sequence 33, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 33
LENGTH: 305
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 206	Optimized Score = 161	Significance = -0.05
Residue Identity = 51%	Matches = 172	Mismatches = 117
Gaps = 43	Conservative Substitutions = 0	

```
X         10        20        30        40        50        60        70
MGILLGLLLLIGHLTVTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
X         10        20        30        40        50        60        70
MGILLGLLLLIGHLTVTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS

          80        90       100       110       120       130       140
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSK--
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
          80        90       100       110       120       130       140
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKHS-SKLL

         150       160       170       180       190       200
--------PI-VTTGSGYGFTVPQ---GMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPA-
                                                                         X
         150       160       170       180       190       200
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLLEMDDRSHYTCEVTWQTPDGNQVIRDKIIELRVRKHS-SKLL

         210       220       230       240       250       260       270
-------------------------LPVFAIILIISLCCMV
KTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGETSAG-PGKS-----
         210       220       230       240       250       260       270
VIADSGSYFCTAKGQVGSEQHSDIVKFVVKRDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLG-
```

3. US-10-633-008-2 (1-321)
    US-10-633-008-34 Sequence 34, Application US/10633008

```
                   210       220       230       240       250       260
VFTMAYIMLCRKTSQ------QEHVYEAARAHAREANDSGETM---RVAIFASGCSSDEPT--SQNLGN
               |||      ||||||||                  |||
                   280       290       300       310       320
ETSAGPGKSLPVFAIILIISLCCMVVFTMAYIMLCRKTSQQEHVYEAAR
                   270       280       290       300
NYSDEPCIGQEYQIIAQINGNYARLLDTVPLDYEFLATEGKSVC
                                                X
```

Sequence 34, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 34
LENGTH: 280
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 108	Optimized Score = 128	Significance = -0.97
Residue Identity = 44%	Matches = 137	Mismatches = 129
Gaps = 42	Conservative Substitutions = 0	

```
X         10        20        30        40        50        60        70
MGILLGLLLLIGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
MEISSGLLFLGHLIVLTVGHPTLKTPESVTGTWKGDVKIQCIYDPLRGYRQVLVKWLVRHGSDSVTIFLRDS
X         10        20        30        40        50        60        70

          80        90       100       110       120       130
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQK------
          ||||||||||||||||||||||||||||||||||||||||||||||||||||
TGDHIQQAKYRGRLKVSHKVPGDVSLQINTLQMDDRNHYTCEVTWQTPDGNQVIRDKIIELRVRKYNPRIN
          80        90       100       110       120       130       140

         150       160       170       180       190       200
-----LSVSKPVVTTGSGYGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLPYILF----
              ||||||||||||||||||||
TEAPTTLHSSLEATTIMSSTSDLITNG-TGKLEEIAGSGRNLPIPAIFIFIISLCCIVAVTIPYILF-----
         150       160       170       180       190       200       210

         210       220
ADSGGSYFCTAKGQVGSEQHSDIVKFVVKRDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGET
              |||||||||||
-----RCRTFQEYVVGVS--RVFARKTS------NSEEFTRVI--TIATDEPDSQALISDYSDDPCLSQE
         210       220       230       240       250       260       270
```

```
            220        230        240        250        260

      280        290   X   300        310        320
SAGPGKSLPVFAIILIISLCCMVVFTWAYIMLCRKTSQQEHVYEAAR
YQITIRS------TMSIPAC
270                    280
```